

BOHN

THE COLD STANDARD

BN-LUCTB

May 2008

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LARGE UNIT COOLER

Technical Guide

Models BHA | Air Defrost • BHE/BHL | Electric Defrost • BHG/BHF | Hot Gas Defrost

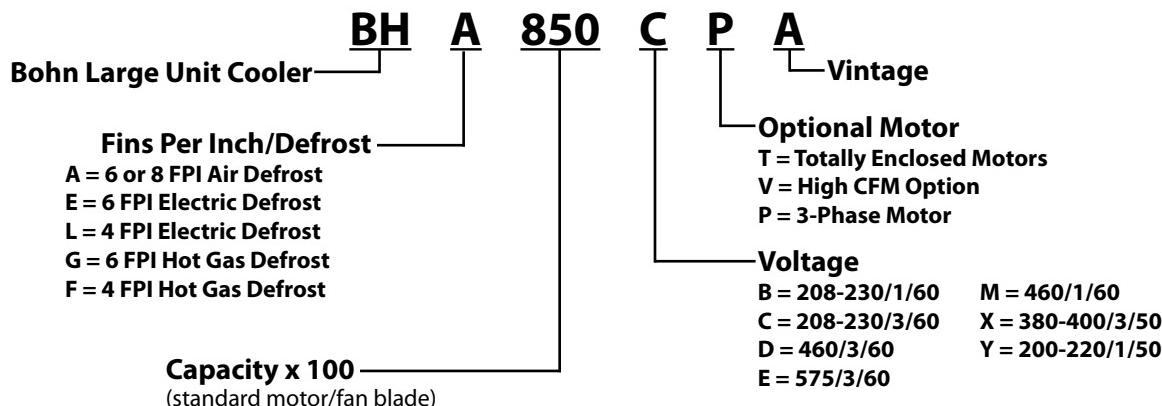


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Nomenclature



Features & Benefits

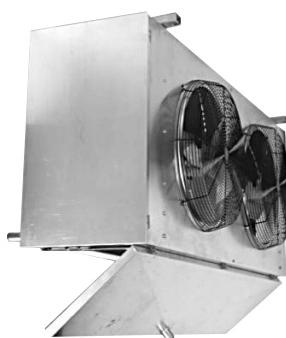
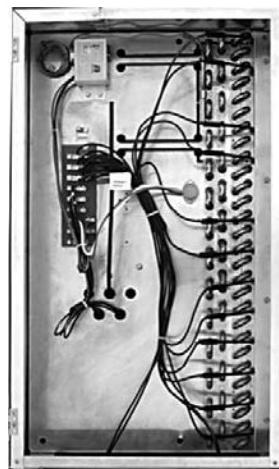
Bohn introduces it's latest line of heavy duty large unit coolers for warehouse cooler/freezer applications. With a wider capacity range and the patented Thermo-Flex coil design, these large unit coolers provide efficient, reliable operation. Bohn has designed many features and options into this product line to give you a superior heavy duty evaporator.

Features

- Mill finish aluminum provides an attractive design and structurally sound cabinet
- Thermo-Flex (with five-year limited warranty) is innovative, eliminates leaks, and reduces risk of refrigerant loss
- 850 rpm motors are quiet and reliable
- Liquid line solenoid wiring harness for faster installation
- Suction Schrader fitting for easier suction temperature measurement
- Hinged drain pan and access panels for easy servicing
- Captive fasteners on access panels for easy servicing — no fumbling with loose bolts and nuts
- Adjustable defrost control can be customized per application
- Long air throw is ideal for large warehouse and industrial applications
- Standardized terminal board for easier field wiring
- Complete hot gas defrost model offering meets more applications

Options

- High CFM motor and fan combinations (208-230/3/60 and 460/3/60)
- Totally enclosed motors (208-230/3/60 and 460/3/60)
- Low temperature motors for blast cooling and freezing (for room temps -31°F to -50°F)
- Long air throw collars for large warehouse and industrial applications
- More factory mounted features for easier field installation (consult factory)
- Insulated drain pan



Innovative Thermo-Flex™ Coil Design

Bohn's innovative coil design utilizes a unique approach to coil expansion that virtually eliminates the possibility of leaks at tube sheets and coil supports.

The **Thermo-Flex™** coil design for the unit cooler* allows the coil to "flex" during periods of defrost resulting in expansion of the coil surface. By eliminating the possibility of wear at critical stress areas, the integrity and longevity of the unit are dramatically increased. The result is a product which greatly enhances overall system reliability and reduces risk of costly refrigerant loss.

Bohn offers a five-year limited guarantee against leaks at tube sheets and center supports for all medium profile unit coolers.

* Patent number 5,584,340

60 Hz Performance

Table 1. Model BHA 60 Hz Air Defrost

Model	Capacity BTUH/watts 10°F TD 25°F SST	Fan Data					Standard Motor Data							
							HP	Total Amps						
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m	Standard		208-230/1/60	208- 230 /3/60	460/1/60	460 /3/60	575 /3/60		
BHA Models 6 Fins Per Inch														
BHA520	52,000 15,200	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8
BHA630	63,000 18,500	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8
BHA750	75,000 22,000	12,600 21,400	3	24 610	70 21	85 26	1/2*	9.6	5.5	7.8	-	3.0	3.9	2.7
BHA850	85,000 24,900	12,600 21,400	3	24 610	70 21	85 26	1/2*	9.6	5.5	7.8	-	3.0	3.9	2.7
BHA930	93,000 27,200	16,800 28,600	4	24 610	70 21	85 26	1/2*	12.8	8.7	10.4	-	4.7	5.2	3.6
BHA1100	110,000 32,200	16,800 28,600	4	24 610	70 21	85 26	1/2*	12.8	8.7	10.4	-	4.7	5.2	3.6
BHA1170	117,000 34,300	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8
BHA1400	140,000 41,000	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8
BHA1610	161,000 47,200	24,300 41,300	3	30 762	100 30	115 35	1-1/2	-	-	19.8	-	-	9.9	7.8
BHA1900	190,000 55,600	26,550 45,100	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4
BHA2200	220,000 64,400	30,400 51,700	4	30 762	120 37	140 43	1-1/2	-	-	26.4	-	-	13.2	10.4
BHA2440	244,000 71,500	35,400 60,200	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2
BHA Models 8 Fins Per Inch														
BHA2160	216,000 63,300	25,950 44,100	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4
BHA2500	250,000 73,200	29,600 50,300	4	30 762	120 37	140 43	1-1/2	-	-	26.4	-	-	13.2	10.4
BHA2780	278,000 81,400	34,600 58,800	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2

* 208-230/3/60 and 460/3/60 motors are 3/4 HP

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

60 Hz Performance

Table 2. Models BHE/BHL 60 Hz Electric Defrost

Model	Capacity BTUH/watts 10°F TD -20°F SST	Fan Data					Standard Motor Data								Defrost Heaters			
							HP	Total Amps						Watts	Total Amps			
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m	Standard		208-230/1/60	208- 230 /3/60	460/1/60	460 /3/60	575 /3/60	208- 230 /3/60	460 3/60	575 3/60			
BHE Models 6 Fins Per Inch																		
BHE450	45,000 13,200	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	9,900	27.5	13.9	11.1
BHE550	55,000 16,100	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	9,900	27.5	13.9	11.1
BHE640	64,000 18,700	12,600 21,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	12,900	35.8	18.1	14.5
BHE740	74,000 21,700	12,600 21,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	12,900	35.8	18.1	14.5
BHE810	81,000 23,700	16,800 28,600	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	17,050	47.8	24.3	19.1
BHE950	95,000 27,800	16,800 28,600	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	17,050	47.8	24.3	19.1
BHE1020	102,000 29,900	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	21,400	64.2	32.1	22.8
BHE1200	120,000 35,100	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	21,400	64.2	32.1	22.8
BHE1390	139,000 40,700	24,300 41,300	3	30 762	100 30	115 35	1-1/2	-	-	19.8	-	-	9.9	7.8	21,400	64.2	32.1	22.8
BHE1650	165,000 48,300	26,550 45,100	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4	33,600	87.2	47.5	34.9
BHE2120	212,000 62,100	35,400 60,200	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2	49,600	128.4	70.0	56.0
BHL Models 4 Fins Per Inch																		
BHL400	40,000 11,700	9,400 16,000	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	9,900	27.5	13.9	11.1
BHL480	48,000 14,100	9,400 16,000	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	9,900	27.5	13.9	11.1
BHL560	56,000 16,400	13,200 22,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	12,900	35.8	18.1	14.5
BHL650	65,000 19,000	13,200 22,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	12,900	35.8	18.1	14.5
BHL710	71,000 20,800	17,600 29,900	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	17,050	47.8	24.3	19.1
BHL840	84,000 24,600	17,600 29,900	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	17,050	47.8	24.3	19.1
BHL890	89,000 26,100	21,600 36,700	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	21,400	64.2	32.1	22.8
BHL1050	105,000 30,800	21,600 36,700	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	21,400	64.2	32.1	22.8
BHL1220	122,000 35,700	25,200 42,800	3	30 762	100 30	115 35	1-1/2	-	-	19.8	-	-	9.9	7.8	21,400	64.2	32.1	22.8
BHL1440	144,000 42,200	27,600 46,900	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4	33,600	87.2	47.5	34.9
BHL1860	186,000 54,500	36,800 62,600	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2	49,600	128.4	70.0	56.0

* 208-230/3/60 and 460/3/60 motors are 3/4 HP

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

60 Hz Performance

Table 3. Models BHG/BHF 60 Hz Hot Gas Defrost

Model	Capacity BTUH/watts 10°F TD -20°F SST	Fan Data					Standard Motor Data								Drain Pan Heaters (Std.) [†]			
							HP	Total Amps						Watts	Total Amps			
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m	w/ Collar		208-230/1/60	208- 230 /3/60	460/1/60	460 /3/60	575 /3/60	208- 230 /1/60		460 1/60	575 /1/60		
BHG Models 6 Fins Per Inch																		
BHG450	45,000 13,200	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	2,100	9.2	4.6	3.7
BHG550	55,000 16,100	9,000 15,300	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	2,100	9.2	4.6	3.7
BHG640	64,000 18,700	12,600 21,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	2,700	11.8	5.9	4.7
BHG740	74,000 21,700	12,600 21,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	2,700	11.8	5.9	4.7
BHG810	81,000 23,700	16,800 28,600	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	4,000	17.4	8.7	6.9
BHG950	95,000 27,800	16,800 28,600	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	4,000	17.4	8.7	6.9
BHG1020	102,000 29,900	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	4,000	17.4	8.7	6.9
BHG1200	120,000 35,100	20,700 35,200	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	4,000	17.4	8.7	6.9
BHG1390	139,000 40,700	24,300 41,300	3	30 762	100 30	115 35	1-1/2	-	-	19.8	-	-	9.9	7.8	4,000	17.4	8.7	6.9
BHG1650	165,000 48,300	26,550 45,100	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4	4,200	18.2	9.1	7.3
BHG2120	212,000 62,100	35,400 60,200	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2	6,200	17.7**	13.4	10.8
BHF Models 4 Fins Per Inch																		
BHF400	40,000 11,700	9,400 16,000	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	2,100	9.2	4.6	3.7
BHF480	48,000 14,100	9,400 16,000	2	24 610	70 21	85 26	1/2*	6.4	-	5.2	3.4	-	2.6	1.8	2,100	9.2	4.6	3.7
BHF560	56,000 16,400	13,200 22,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	2,700	11.8	5.9	4.7
BHF650	65,000 19,000	13,200 22,400	3	24 610	70 21	85 26	1/2*	-	5.5	7.8	-	3.0	3.9	2.7	2,700	11.8	5.9	4.7
BHF710	71,000 20,800	17,600 29,900	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	4,000	17.4	8.7	6.9
BHF840	84,000 24,600	17,600 29,900	4	24 610	70 21	85 26	1/2*	-	8.7	10.4	-	4.7	5.2	3.6	4,000	17.4	8.7	6.9
BHF890	89,000 26,100	21,600 36,700	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	4,000	17.4	8.7	6.9
BHF1050	105,000 30,800	21,600 36,700	3	30 762	100 30	115 35	1	-	-	13.8	-	-	6.9	7.8	4,000	17.4	8.7	6.9
BHF1220	122,000 35,700	25,200 42,800	3	30 762	100 30	115 35	1-1/2	-	-	19.8	-	-	9.9	7.8	4,000	17.4	8.7	6.9
BHF1440	144,000 42,200	27,600 46,900	3	30 762	120 37	140 43	1-1/2	-	-	21.0	-	-	10.5	8.4	4,200	18.2	9.1	7.3
BHF1860	186,000 54,500	36,800 62,600	4	30 762	120 37	140 43	1-1/2	-	-	28.0	-	-	14.0	11.2	6,200	17.7**	13.4	10.8

* 208-230/3/60 and 460/3/60 motors are 3/4 HP

** This model with 3-Phase drain pan heaters

[†] Hot gas drain pan available

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

60 Hz Performance

Table 4. Models BHE/BHL 60 Hz Electric Defrost High CFM

Model	Capacity BTUH/watts 10°F TD -20°F SST	Fan Data						Standard Motor Data			Defrost Heaters			
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m		HP	Total Amps		Watts	Total Amps			
					Standard	w/ Collar		208- 230 /3/60	460 /3/60		208- 230 /3/60	460 /3/60	575 /3/60	
BHE Models 6 Fins Per Inch														
BHE450*V	49,500 14,500	11,300 19,200	2	24	610	85 30	100 30	2	12.0	6.0	9,900	27.5	13.9	11.1
BHE550*V	60,500 17,700	11,300 19,200	2	24	610	85 30	100 30	2	12.0	6.0	9,900	27.5	13.9	11.1
BHE640*V	70,400 20,600	15,900 27,000	3	24	610	85 30	100 30	2	18.0	9.0	12,900	35.8	18.1	14.5
BHE740*V	81,400 23,800	15,900 27,000	3	24	610	85 30	100 30	2	18.0	9.0	12,900	35.8	18.1	14.5
BHE810*V	89,100 26,100	21,200 36,000	4	24	610	85 30	100 30	2	24.0	12.0	17,050	47.8	24.3	19.5
BHE950*V	104,000 30,500	21,200 36,000	4	24	610	85 30	100 30	2	24.0	12.0	17,050	47.8	24.3	19.5
BHE1020*V	107,100 31,400	23,300 39,600	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHE1200*V	126,000 36,900	23,300 39,600	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHE1390*V	146,000 42,800	27,200 46,200	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHE1650*V	174,000 51,000	29,700 50,500	3	30	762	130 40	150 50	3	24.6	12.3	33,600	87.2	47.5	34.9
BHE2120*V	223,000 65,300	39,600 67,300	4	30	762	130 40	150 50	3	32.8	16.4	49,600	128.4	70.0	56.0
BHL Models 4 Fins Per Inch														
BHL400*V	42,000 12,300	12,200 20,700	2	24	610	85 30	100 30	2	12.0	6.0	9,900	27.5	13.9	11.1
BHL480*V	50,400 14,800	12,200 20,700	2	24	610	85 30	100 30	2	12.0	6.0	9,900	27.5	13.9	11.1
BHL560*V	58,800 17,200	17,000 28,900	3	24	610	85 30	100 30	2	18.0	9.0	12,900	35.8	18.1	14.5
BHL650*V	68,300 20,000	17,000 28,900	3	24	610	85 30	100 30	2	18.0	9.0	12,900	35.8	18.1	14.5
BHL710*V	74,600 21,800	22,600 38,400	4	24	610	85 30	100 30	2	24.0	12.0	17,050	47.8	24.3	19.5
BHL840*V	88,200 25,800	22,600 38,400	4	24	610	85 30	100 30	2	24.0	12.0	17,050	47.8	24.3	19.5
BHL890*V	91,200 26,700	23,800 40,500	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHL1050*V	107,600 31,500	23,800 40,500	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHL1220*V	125,000 36,600	32,800 55,800	3	30	762	110 30	130 40	3	24.6	12.3	21,400	64.2	32.1	22.8
BHL1440*V	147,000 43,100	30,600 52,000	3	30	762	130 40	150 50	3	24.6	12.3	33,600	87.2	47.5	34.9
BHL1860*V	190,000 55,600	40,800 69,400	4	30	762	130 40	150 50	3	32.8	16.4	49,600	128.4	70.0	56.0

NOTES: High CFM models can handle external static pressure up to 1/2" of water

High CFM models are designed for operation below 15°F SST

CFM is at 0.0 external static pressure

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

60 Hz Performance

Table 5. Models BHG/BHF 60 Hz Hot Gas Defrost High CFM

Model	Capacity BTUH/watts 10°F TD -20°F SST	Fan Data						Standard Motor Data			Drain Pan Heaters (Std.) [†]			
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m		HP	Total Amps		Watts	Total Amps			
					Standard	w/ Collar		208- 230 /3/60	460 /3/60		208- 230 /1/60	460 /1/60	575 /1/60	
BHG Models 6 Fins Per Inch														
BHG450*V	49,500 14,500	11,300 19,200	2	24 610	85 30	100 30	2	12.0	6.0	2,100	9.2	4.6	3.7	
BHG550*V	60,500 17,700	11,300 19,200	2	24 610	85 30	100 30	2	12.0	6.0	2,100	9.2	4.6	3.7	
BHG640*V	70,400 20,600	15,900 27,000	3	24 610	85 30	100 30	2	18.0	9.0	2,700	11.8	5.9	4.7	
BHG740*V	81,400 23,800	15,900 27,000	3	24 610	85 30	100 30	2	18.0	9.0	2,700	11.8	5.9	4.7	
BHG810*V	89,100 26,100	21,200 36,000	4	24 610	85 30	100 30	2	24.0	12.0	4,000	17.4	8.7	6.9	
BHG950*V	104,000 30,500	21,200 36,000	4	24 610	85 30	100 30	2	24.0	12.0	4,000	17.4	8.7	6.9	
BHG1020*V	107,100 31,400	23,300 39,600	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHG1200*V	126,000 36,900	23,300 39,600	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHG1390*V	146,000 42,800	27,200 46,200	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHG1650*V	174,000 51,000	29,700 50,500	3	30 762	130 40	150 50	3	24.6	12.3	4,200	18.2	9.1	7.3	
BHG2120*V	223,000 65,300	39,600 67,300	4	30 762	130 40	150 50	3	32.8	16.4	6,200	17.7*	13.4	10.8	
BHF Models 4 Fins Per Inch														
BHF400*V	42,000 12,300	12,200 20,700	2	24 610	85 30	100 30	2	12.0	6.0	2,100	9.2	4.6	3.7	
BHF480*V	50,400 14,800	12,200 20,700	2	24 610	85 30	100 30	2	12.0	6.0	2,100	9.2	4.6	3.7	
BHF560*V	58,800 17,200	17,000 28,900	3	24 610	85 30	100 30	2	18.0	9.0	2,700	11.8	5.9	4.7	
BHF650*V	68,300 20,000	17,000 28,900	3	24 610	85 30	100 30	2	18.0	9.0	2,700	11.8	5.9	4.7	
BHF710*V	74,600 21,800	22,600 38,400	4	24 610	85 30	100 30	2	24.0	12.0	4,000	17.4	8.7	6.9	
BHF840*V	88,200 25,800	22,600 38,400	4	24 610	85 30	100 30	2	24.0	12.0	4,000	17.4	8.7	6.9	
BHF890*V	91,200 26,700	23,800 40,500	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHF1050*V	107,600 31,500	23,800 40,500	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHF1220*V	125,000 36,600	32,800 55,800	3	30 762	110 30	130 40	3	24.6	12.3	4,000	17.4	8.7	6.9	
BHF1440*V	147,000 43,100	30,600 52,000	3	30 762	130 40	150 50	3	24.6	12.3	4,200	18.2	9.1	7.3	
BHF1860*V	190,000 55,600	40,800 69,400	4	30 762	130 40	150 50	3	32.8	16.4	6,200	17.7*	13.4	10.8	

* This model with 3-Phase drain pan heaters

[†] Hot gas drain pan available

NOTES: High CFM models can handle external static pressure up to 1/2" of water

High CFM models are designed for operation below 15°F SST

CFM is at 0.0 external static pressure

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

50 Hz Performance

Table 6. Model BHA 50 Hz Air Defrost

Model	Capacity BTUH/watts 6°C TD -4°C SST	Fan Data						Standard Motor Data						
								HP	Total Amps					
		CFM/m³h	No.	Dia. in./mm	Air Throw ft./m		Standard	w/ Collar	220/1/50		380/1/50		380 /3/50	
BHA Models 6 Fins Per Inch														
BHA520	47,800 14,000	8,100 23,400	2	24	610	60	18	80	24	1/2*	6.4	3.4	-	2.6
BHA630	58,000 17,000	8,100 23,400	2	24	610	60	18	80	24	1/2*	6.4	3.4	-	2.6
BHA750	69,000 20,200	11,300 32,700	3	24	610	60	18	80	24	1/2*	9.6	-	3.0	3.9
BHA850	78,200 22,900	11,300 32,700	3	24	610	60	18	80	24	1/2*	9.6	-	3.0	3.9
BHA930	85,600 25,100	15,100 43,800	4	24	610	60	18	80	24	1/2*	12.8	-	4.7	5.2
BHA1100	101,200 29,600	15,100 43,800	4	24	610	60	18	80	24	1/2*	12.8	-	4.7	5.2
BHA1170	107,600 31,500	18,600 53,900	3	30	762	90	27	100	30	1	-	-	-	6.9
BHA1400	128,800 37,700	18,600 53,900	3	30	762	90	27	100	30	1	-	-	-	6.9
BHA1610	148,100 43,400	21,900 63,200	3	30	762	90	27	100	30	1-1/2	-	-	-	9.9
BHA1900	174,800 51,200	23,900 69,000	3	30	762	110	34	130	40	1-1/2	-	-	-	10.5
BHA2200	202,400 59,300	27,400 79,100	4	30	762	110	34	130	40	1-1/2	-	-	-	13.2
BHA2440	224,500 65,800	31,900 92,100	4	30	762	110	34	130	40	1-1/2	-	-	-	14.0
BHA Models 8 Fins Per Inch														
BHA2160	198,700 58,200	23,400 67,500	3	30	762	110	34	130	40	1-1/2	-	-	-	10.5
BHA2500	230,000 67,400	26,700 77,000	4	30	762	110	34	130	40	1-1/2	-	-	-	13.2
BHA2780	255,800 74,900	31,200 90,000	4	30	762	110	34	130	40	1-1/2	-	-	-	14.0

* 380/3/50 motors are 3/4 HP

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

50 Hz Performance

Table 7. Models BHE/BHL 50 Hz Electric Defrost

Model	Capacity BTUH/watts 6°C TD -29°C SST	Fan Data						Standard Motor Data				Defrost Heaters	
								HP	Total Amps			Watts	Total Amps
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m	Standard	w/ Collar		380 Wired 1-Phase	380 Wired 3-Phase	380 /3/50		
BHE Models 6 Fins Per Inch													
BHE450	41,400 12,100	8,100 23,400	2	24 610	60 18	80 24	1/2*	3.4	-	2.6	6,760	11.5	
BHE550	50,600 14,800	8,100 23,400	2	24 610	60 18	80 24	1/2*	3.4	-	2.6	6,760	11.5	
BHE640	58,900 17,300	11,300 32,700	3	24 610	60 18	80 24	1/2*	-	3.0	3.9	8,800	15.0	
BHE740	68,100 19,900	11,300 32,700	3	24 610	60 18	80 24	1/2*	-	3.0	3.9	8,800	15.0	
BHE810	74,500 21,800	15,100 43,800	4	24 610	60 18	80 24	1/2*	-	4.7	5.2	11,640	20.1	
BHE950	87,400 25,600	15,100 43,800	4	24 610	60 18	80 24	1/2*	-	4.7	5.2	11,640	20.1	
BHE1020	93,800 27,500	18,600 53,900	3	30 762	90 27	100 30	1	-	-	6.9	14,600	26.5	
BHE1200	110,400 32,300	18,600 53,900	3	30 762	90 27	100 30	1	-	-	6.9	14,600	26.5	
BHE1390	127,900 37,500	21,900 63,200	3	30 762	90 27	100 30	1-1/2	-	-	9.9	14,600	26.5	
BHE1650	151,800 44,500	23,900 69,000	3	30 762	110 34	130 40	1-1/2	-	-	10.5	22,930	39.2	
BHE2120	195,000 57,100	31,900 92,100	4	30 762	110 34	130 40	1-1/2	-	-	14.0	33,850	57.8	
BHL Models 4 Fins Per Inch													
BHL400	36,800 10,800	8,500 24,500	2	24 610	60 18	80 24	1/2*	3.4	-	2.6	6,760	11.5	
BHL480	44,200 12,900	8,500 24,500	2	24 610	60 18	80 24	1/2*	3.4	-	2.6	6,760	11.5	
BHL560	51,500 15,100	11,900 34,300	3	24 610	60 18	80 24	1/2*	-	3.0	3.9	8,800	15.0	
BHL650	59,800 17,500	11,900 34,300	3	24 610	60 18	80 24	1/2*	-	3.0	3.9	8,800	15.0	
BHL710	65,300 19,100	15,900 45,700	4	24 610	60 18	80 24	1/2*	-	4.7	5.2	11,640	20.1	
BHL840	77,300 22,600	15,900 45,700	4	24 610	60 18	80 24	1/2*	-	4.7	5.2	11,640	20.1	
BHL890	81,900 24,000	19,500 56,200	3	30 762	90 27	100 30	1	-	-	6.9	14,600	26.5	
BHL1050	96,600 28,300	19,500 56,200	3	30 762	90 27	100 30	1	-	-	6.9	14,600	26.5	
BHL1220	112,200 32,900	22,700 65,500	3	30 762	90 27	100 30	1-1/2	-	-	9.9	14,600	26.5	
BHL1440	132,500 38,800	24,900 71,800	3	30 762	110 34	130 40	1-1/2	-	-	10.5	22,930	39.2	
BHL1860	171,100 50,100	33,100 95,800	4	30 762	110 34	130 40	1-1/2	-	-	14.0	33,850	57.8	

* 380/3/50 motors are 3/4 HP

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

50 Hz Performance

Table 8. Models BHG/BHF 50 Hz Hot Gas Defrost

Model	Capacity BTUH/watts 6°C TD -29°C SST	Fan Data					Standard Motor Data					Defrost Heaters (Std.) [†]	
							HP	Total Amps				Watts	Total Amps
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m	w/ Collar		220/1/50	380/1/50	Wired 1-Phase	Wired 1-Phase		
BHG Models 6 Fins Per Inch													
BHG450	41,400 12,100	8,100 23,400	2	24 610	60 18	80 24	1/2*	6.4	3.4	-	2.6	1,430	3.8
BHG550	50,600 14,800	8,100 23,400	2	24 610	60 18	80 24	1/2*	6.4	3.4	-	2.6	1,430	3.8
BHG640	58,900 17,300	11,300 32,700	3	24 610	60 18	80 24	1/2*	9.6	-	3.0	3.9	1,840	4.9
BHG740	68,100 19,900	11,300 32,700	3	24 610	60 18	80 24	1/2*	9.6	-	3.0	3.9	1,840	4.9
BHG810	74,500 21,800	15,100 43,800	4	24 610	60 18	80 24	1/2*	12.8	-	4.7	5.2	2,730	7.2
BHG950	87,400 25,600	15,100 43,800	4	24 610	60 18	80 24	1/2*	12.8	-	4.7	5.2	2,730	7.2
BHG1020	93,800 27,500	18,600 53,900	3	30 762	90 27	100 30	1	-	-	-	6.9	2,730	7.2
BHG1200	110,400 32,300	18,600 53,900	3	30 762	90 27	100 30	1	-	-	-	6.9	2,730	7.2
BHG1390	127,900 37,500	21,900 63,200	3	30 762	90 27	100 30	1-1/2	-	-	-	9.9	2,730	7.2
BHG1650	151,800 44,500	23,900 69,000	3	30 762	110 34	130 40	1-1/2	-	-	-	10.5	2,870	7.5
BHG2120	195,000 57,100	31,900 92,100	4	30 762	110 34	130 40	1-1/2	-	-	-	14.0	4,230	11.1
BHF Models 4 Fins Per Inch													
BHF400	36,800 10,800	8,500 24,500	2	24 610	60 18	80 24	1/2*	6.4	3.4	-	2.6	1,430	3.8
BHF480	44,200 12,900	8,500 24,500	2	24 610	60 18	80 24	1/2*	6.4	3.4	-	2.6	1,430	3.8
BHF560	51,500 15,100	11,900 34,300	3	24 610	60 18	80 24	1/2*	9.6	-	3.0	3.9	1,840	4.9
BHF650	59,800 17,500	11,900 34,300	3	24 610	60 18	80 24	1/2*	9.6	-	3.0	3.9	1,840	4.9
BHF710	65,300 19,100	15,900 45,700	4	24 610	60 18	80 24	1/2*	12.8	-	4.7	5.2	2,730	7.2
BHF840	77,300 22,600	15,900 45,700	4	24 610	60 18	80 24	1/2*	12.8	-	4.7	5.2	2,730	7.2
BHF890	81,900 24,000	19,500 56,200	3	30 762	90 27	100 30	1	-	-	-	6.9	2,730	7.2
BHF1050	96,600 28,300	19,500 56,200	3	30 762	90 27	100 30	1	-	-	-	6.9	2,730	7.2
BHF1220	112,200 32,900	22,700 65,500	3	30 762	90 27	100 30	1-1/2	-	-	-	9.9	2,730	7.2
BHF1440	132,500 38,800	24,900 71,800	3	30 762	110 34	130 40	1-1/2	-	-	-	10.5	2,870	7.5
BHF1860	171,100 50,100	33,100 95,800	4	30 762	110 34	130 40	1-1/2	-	-	-	14.0	4,230	11.1

* 380/3/50 motors are 3/4 HP

[†] Hot gas drain pan available

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

50 Hz Performance

Table 9. Models BHE/BHL 50 Hz Electric Defrost High CFM

Model	Capacity BTUH/watts 6°C TD -29°C SST	Fan Data						Standard Motor Data		Defrost Heaters	
		CFM/m³h	No.	Dia. in./mm	Air Throw ft./m			HP	Total Amps 380 /3/50	Watts	Total Amps 380/3/50
					Standard	w/ Collar					
BHE Models 6 Fins Per Inch											
BHE450*V	45,500 13,300	10,200 17,300	2	24 610	80 24	90 27	2	6.0	6,760	11.5	
BHE550*V	55,700 16,300	10,200 17,300	2	24 610	80 24	90 27	2	6.0	6,760	11.5	
BHE640*V	64,800 19,000	14,300 24,300	3	24 610	80 24	90 27	2	9.0	8,800	15.0	
BHE740*V	74,900 21,900	14,300 24,300	3	24 610	80 24	90 27	2	9.0	8,800	15.0	
BHE810*V	82,000 24,000	19,100 32,500	4	24 610	80 24	90 27	2	12.0	11,640	20.1	
BHE950*V	95,700 28,000	19,100 32,500	4	24 610	80 24	90 27	2	12.0	11,640	20.1	
BHE1020*V	98,500 28,800	21,000 35,700	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHE1200*V	115,900 33,900	21,000 35,700	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHE1390*V	134,300 39,300	24,500 41,700	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHE1650*V	160,100 46,900	26,700 45,400	3	30 762	120 37	140 43	3	12.3	22,930	39.2	
BHE2120*V	205,200 60,100	35,700 60,700	4	30 762	120 37	140 43	3	16.4	33,850	57.8	
BHL Models 4 Fins Per Inch											
BHL400*V	38,600 11,300	11,000 18,700	2	24 610	80 24	90 27	2	6.0	6,760	11.5	
BHL480*V	46,400 13,600	11,000 18,700	2	24 610	80 24	90 27	2	6.0	6,760	11.5	
BHL560*V	54,100 15,800	15,300 26,000	3	24 610	80 24	90 27	2	9.0	8,800	15.0	
BHL650*V	62,800 18,400	15,300 26,000	3	24 610	80 24	90 27	2	9.0	8,800	15.0	
BHL710*V	68,600 20,100	20,400 34,700	4	24 610	80 24	90 27	2	12.0	11,640	20.1	
BHL840*V	81,100 23,800	20,400 34,700	4	24 610	80 24	90 27	2	12.0	11,640	20.1	
BHL890*V	83,900 24,600	21,400 36,400	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHL1050*V	99,000 29,000	21,400 36,400	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHL1220*V	115,000 33,700	29,500 50,200	3	30 762	100 30	120 37	3	12.3	14,600	26.5	
BHL1440*V	135,200 39,600	27,600 46,900	3	30 762	120 37	140 43	3	12.3	22,930	39.2	
BHL1860*V	174,800 51,200	36,700 62,400	4	30 762	120 37	140 43	3	16.4	33,850	57.8	

NOTES: High CFM models can handle external static pressure up to 1/2" of water

High CFM models are designed for operation below 15°F SST

CFM is at 0.0 external static pressure

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Table 10. Models BHG/BHF 50 Hz Hot Gas Defrost High CFM

Model	Capacity BTUH/watts 6°C TD -29°C SST	Fan Data						Standard Motor Data		Drain Pan Heaters (Std.)	
		CFM/m ³ h	No.	Dia. in./mm	Air Throw ft./m		HP	Total Amps 380 /3/50	Watts	Total Amps 380 /1/50	
					Standard	w/ Collar					
BHG Models 6 Fins Per Inch											
BHG450*V	45,500 13,300	10,200 17,300	2	24 610	80 24	90 27	2	6.0	1,430	3.8	
BHG550*V	55,700 16,300	10,200 17,300	2	24 610	80 24	90 27	2	6.0	1,430	3.8	
BHG640*V	64,800 19,000	14,300 24,300	3	24 610	80 24	90 27	2	9.0	1,840	4.9	
BHG740*V	74,900 21,900	14,300 24,300	3	24 610	80 24	90 27	2	9.0	1,840	4.9	
BHG810*V	82,000 24,000	19,100 32,500	4	24 610	80 24	90 27	2	12.0	2,730	7.2	
BHG950*V	95,700 28,000	19,100 32,500	4	24 610	80 24	90 27	2	12.0	2,730	7.2	
BHG1020*V	98,500 28,800	21,000 35,700	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHG1200*V	115,900 33,900	21,000 35,700	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHG1390*V	134,300 39,300	24,500 41,700	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHG1650*V	160,100 46,900	26,700 45,400	3	30 762	120 37	140 43	3	12.3	2,870	7.5	
BHG2120*V	205,200 60,100	35,700 60,700	4	30 762	120 37	140 43	3	16.4	4,230	11.1	
BHF Models 4 Fins Per Inch											
BHF400*V	38,600 11,300	11,000 18,700	2	24 610	80 24	90 27	2	6.0	1,430	3.8	
BHF480*V	46,400 13,600	11,000 18,700	2	24 610	80 24	90 27	2	6.0	1,430	3.8	
BHF560*V	54,100 15,800	15,300 26,000	3	24 610	80 24	90 27	2	9.0	1,840	4.9	
BHF650*V	62,800 18,400	15,300 26,000	3	24 610	80 24	90 27	2	9.0	1,840	4.9	
BHF710*V	68,600 20,100	20,400 34,700	4	24 610	80 24	90 27	2	12.0	2,730	7.2	
BHF840*V	81,100 23,800	20,400 34,700	4	24 610	80 24	90 27	2	12.0	2,730	7.2	
BHF890*V	83,900 24,600	21,400 36,400	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHF1050*V	99,000 29,000	21,400 36,400	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHF1220*V	115,000 33,700	29,500 50,200	3	30 762	100 30	120 37	3	12.3	2,730	7.2	
BHF1440*V	135,200 39,600	27,600 46,900	3	30 762	120 37	140 43	3	12.3	2,870	7.5	
BHF1860*V	174,800 51,200	36,700 62,400	4	30 762	120 37	140 43	3	16.4	4,230	11.1	

NOTES: High CFM models can handle external static pressure up to 1/2" of water

High CFM models are designed for operation below 15°F SST

CFM is at 0.0 external static pressure

NOTES: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Physical Specifications

Table 11. Model BHA Air Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt. (lbs./kg.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	
BHA Models 6 Fins Per Inch						
BHA520	2	1-1/8	1-5/8	1/4	1-1/4	270 120
BHA630	2	1-1/8	1-5/8	1/4	1-1/4	300 140
BHA750	3	1-3/8	2-1/8	1/4	1-1/4	390 180
BHA850	3	1-3/8	2-1/8	1/4	1-1/4	430 200
BHA930	4	1-3/8	2-1/8	1/4	1-1/4	515 230
BHA1100	4	1-3/8	2-1/8	1/4	1-1/4	565 260
BHA1170	3	1-3/8	2-1/8	1/4	1-1/4	738 330
BHA1400	3	1-5/8	2-1/8	1/4	1-1/4	800 360
BHA1610	3	1-3/8 (2 connns)	2-1/8 (2 connns)	1/4 (2 connns)	1-1/4	850 390
BHA1900	3	1-3/8	2-5/8	1/4	1-1/4	1,160 530
BHA2200	4	1-3/8	2-5/8	1/4	1-1/4	1,500 680
BHA2440	4	1-5/8	2-5/8	1/4	1-1/4	1,600 730
BHA Models 8 Fins Per Inch						
BHA2160	3	1-3/8	2-5/8	1/4	1-1/4	1,160 530
BHA2500	4	1-3/8	2-5/8	1/4	1-1/4	1,500 680
BHA2780	4	1-3/8	2-5/8	1/4	1-1/4	1,600 730

Physical Specifications

Table 12. Model BHE/BHL Electric Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt. (lbs./kg.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	
BHE Models 6 Fins Per Inch						
BHE450	2	1-1/8	1-5/8	1/4	1-1/4	280 130
BHE550	2	1-1/8	1-5/8	1/4	1-1/4	310 140
BHE640	3	1-3/8	2-1/8	1/4	1-1/4	405 180
BHE740	3	1-3/8	2-1/8	1/4	1-1/4	445 200
BHE810	4	1-3/8	2-1/8	1/4	1-1/4	535 240
BHE950	4	1-3/8	2-1/8	1/4	1-1/4	585 270
BHE1020	3	1-3/8	2-1/8	1/4	1-1/4	753 340
BHE1200	3	1-5/8	2-1/8	1/4	1-1/4	815 370
BHE1390	3	1-3/8 (2 conn)	2-1/8 (2 conn)	1/4 (2 conn)	1-1/4	865 390
BHE1650	3	1-3/8	2-5/8	1/4	1-1/4	1,175 530
BHE2120	4	1-5/8	2-5/8	1/4	1-1/4	1,620 730
BHL Models 4 Fins Per Inch						
BHL400	2	1-1/8	1-5/8	1/4	1-1/4	277 130
BHL480	2	1-1/8	1-5/8	1/4	1-1/4	306 140
BHL560	3	1-3/8	2-1/8	1/4	1-1/4	400 180
BHL650	3	1-3/8	2-1/8	1/4	1-1/4	440 200
BHL710	4	1-3/8	2-1/8	1/4	1-1/4	528 240
BHL840	4	1-3/8	2-1/8	1/4	1-1/4	578 260
BHL890	3	1-3/8	2-1/8	1/4	1-1/4	744 340
BHL1050	3	1-5/8	2-1/8	1/4	1-1/4	805 370
BHL1220	3	1-3/8 (2 conn)	2-1/8 (2 conn)	1/4 (2 conn)	1-1/4	854 390
BHL1440	3	1-3/8	2-5/8	1/4	1-1/4	1,160 530
BHL1860	4	1-5/8	2-5/8	1/4	1-1/4	1,600 730

Physical Specifications

Table 13. Model BHG/BHF Hot Gas Defrost

Model	No. of Fans	Connections (in.)						Approx. Net Wt. (lbs./kg.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Hot Gas Side Port	Hot Gas Drain Pan Ref. Conn. (when supplied)	
BHG Models 6 Fins Per Inch								
BHG450	2	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	280 130
BHG550	2	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	310 140
BHG640	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	405 180
BHG740	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	445 200
BHG810	4	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	535 240
BHG950	4	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	585 270
BHG1020	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-3/8	753 340
BHG1200	3	1-5/8	2-1/8	1/4	1-1/4	1-1/8	1-3/8	815 370
BHG1390	3	1-3/8 (2 connns)	2-1/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-3/8	865 390
BHG1650	3	1-3/8 (2 connns)	2-5/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-5/8*	1,175 530
BHG2120	4	1-3/8 (2 connns)	2-5/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-5/8*	1,620 730
BHF Models 4 Fins Per Inch								
BHF400	2	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	277 130
BHF480	2	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	306 140
BHF560	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	400 180
BHF650	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	440 200
BHF710	4	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	528 240
BHF840	4	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	578 260
BHF890	3	1-3/8	2-1/8	1/4	1-1/4	7/8	1-3/8	744 340
BHF1050	3	1-5/8	2-1/8	1/4	1-1/4	1-1/8	1-3/8	805 370
BHF1220	3	1-3/8 (2 connns)	2-1/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-3/8	854 390
BHF1440	3	1-3/8 (2 connns)	2-5/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-5/8*	1,160 530
BHF1860	4	1-3/8 (2 connns)	2-5/8 (2 connns)	1/4 (2 connns)	1-1/4	7/8 (2 connns)	1-5/8*	1,600 730

*Opposite end connections

Diagram 1. All Models

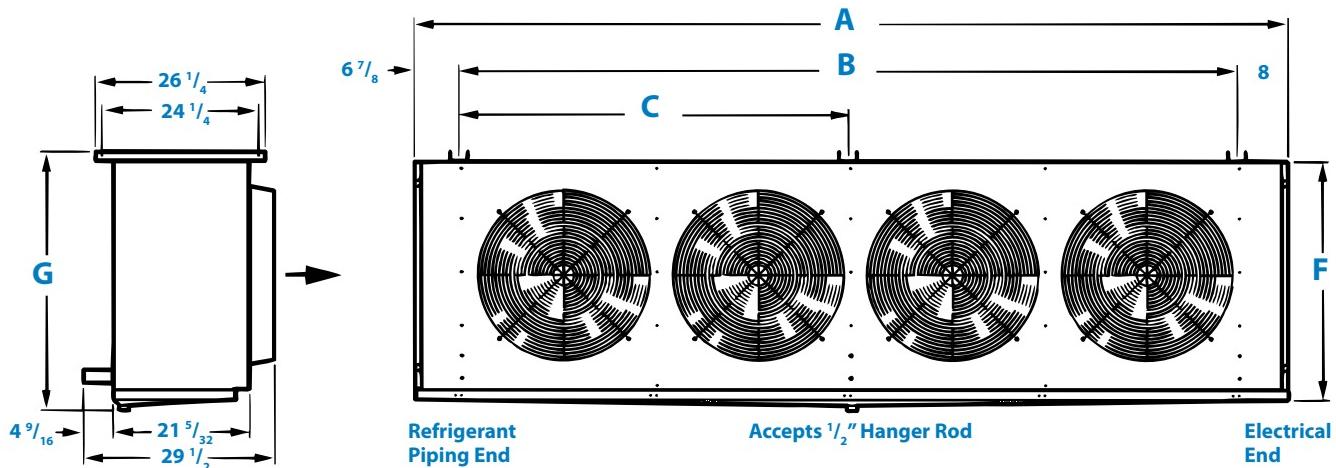


Table 14. All Models Dimensions

Air Defrost Models	Electric & Hot Gas Defrost Models		Dimensions (in./mm.)						
	6 FPI	6 FPI	4 FPI	A	B	C	F	G	
520	450	400	83-3/32	2,111	68-1/8	1,730	-	-	37-3/16 945
630	550	480	83-3/32	2,111	68-1/8	1,730	-	-	37-3/16 945
750	640	560	105-5/32	2,671	90-3/16	2,291	45-3/32	1,145	37-3/16 945
850	740	650	105-5/32	2,671	90-3/16	2,291	45-3/32	1,145	37-3/16 945
930	810	710	135-7/32	3,435	120-1/4	3,054	60-1/8	1,527	37-3/16 945
1100	950	840	135-7/32	3,435	120-1/4	3,054	60-1/8	1,527	37-3/16 945
									40-11/32 1,025

Dimensional Data

Diagram 2. All Models

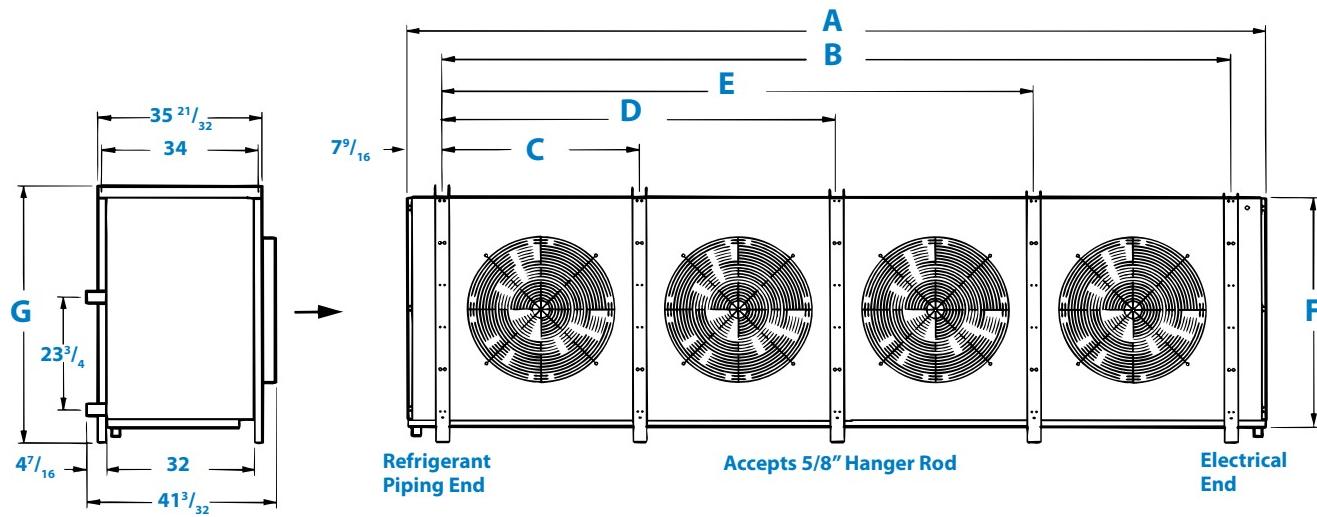


Table 15. All Models Dimensions

Air Defrost Models		Electric & Hot Gas Defrost Models		Dimensions (in./mm.)						
6 FPI	8 FPI	6 FPI	4 FPI	A	B	C	D	E	F	G
1170	-	1020	890	135-13/32 3,439	120-9/32 3,055	40-3/32 1,018	80-3/16 2,037	-	44-1/2 1,130	50-5/16 1,278
1400	-	1200	1050	135-13/32 3,439	120-9/32 3,055	40-3/32 1,018	80-3/16 2,037	-	44-1/2 1,130	50-5/16 1,278
1610	-	1390	1220	135-13/32 3,439	120-9/32 3,055	40-3/32 1,018	80-3/16 2,037	-	50-7/32 1,276	55-13/16 1,418
1900	2160	1650	1440	142-1/2 3,620	127-25/32 3,246	42-19/32 1,082	85-3/16 2,164	-	50-7/32 1,276	55-13/16 1,418
2200	2500	-	-	185-1/2 4,712	170-3/8 4,328	42-19/32 1,082	85-3/16 2,164	127-25/32 3,246	44-1/2 1,130	50-5/16 1,278
2440	2780	2120	1860	185-1/2 4,712	170-3/8 4,328	42-19/32 1,082	85-3/16 2,164	127-25/32 3,246	50-7/32 1,276	56-1/4 1,429

Table 16. Electric & Hot Gas Defrost Models Air Throw

Electric & Hot Gas Defrost Models		Standard Motor RPM	Standard HP	Air Throw	Air Throw w/ Collar	Optional High CFM Motor RPM	Optional HP	Air Throw	Air Throw w/ Collar
6 FPI	4 FPI								
450 - 950	400 - 840	850	1/2*	70	85	1,750	2	80	100
1020 - 1390	890 - 1220	850	1 & 1-1/2	100	120	1,750	3	115	145
1650 - 2120	1440 - 1860	1,140	1-1/2	120	145	1,750	3	130	150

* 3-Phase Motors are 1140 RPM

Air throw data based on 30 ft. ceiling height with no obstructions where velocity drops to 50 fpm

Table 17. Standard Nozzle Selections

Type	No. of Fans	Distributor Tube (in.)		Model	No. of Circuits	R-404A* Nozzle	R-22 Nozzle
		OD	Length				
BHA Air Defrost	2	3/16	25.5	520	14	E-4	E-2-1/2
	2	3/16	25.5	630	14	E-5	E-3
	3	3/16	25.5	750	21	C-6	C-4
	3	3/16	25.5	850	28	C-6	C-4
	4	3/16	25.5	930	21	C-8	C-4
	4	3/16	25.5	1100	28	C-10	C-5
	3	3/16	28	1170	25	C-10	C-5
	3	3/16	28	1400	34	A-12	A-8
	3	3/16	21.5	1610	19 x 2	C-6 x 2	C-4 x 2
	3	1/4	32	1900	24	C-17	C-12
	3	1/4	32	2160	19	C-20	C-12
	4	1/4	32	2200	21	C-20	C-12
	4	1/4	32	2440	32	A-20	A-15
	4	1/4	32	2550	21	C-20	C-15
	4	1/4	32	2780	24	C-25	C-17
BHE/BHL Electric Defrost	2	3/16	25.5	400/450	14	E-5	E-3
	2	3/16	25.5	480/550	14	E-8	E-4
	3	3/16	25.5	560/640	21	C-8	C-5
	3	3/16	25.5	650/740	28	C-10	C-5
	4	3/16	25.5	710/810	21	C-12	C-6
	4	3/16	25.5	840/950	28	C-15	C-8
	3	3/16	28	890/1020	25	C-15	C-8
	3	3/16	28	1050/1200	34	A-17	A-10
	3	3/16	21.5	1220/1390	19 x 2	C-10 x 2	C-5 x 2
	3	1/4	32	1440/1650	24	C-20	C-17
	4	1/4	32	1860/2120	32	A-30	A-20
BHG/BHF Hot Gas Defrost	2	3/16	25.5	400/450	14	E-5	E-3
	2	3/16	25.5	480/550	14	E-6	E-4
	3	3/16	25.5	560/640	21	C-8	C-5
	3	3/16	25.5	650/740	28	C-10	C-5
	4	3/16	25.5	710/810	21	C-12	C-6
	4	3/16	25.5	840/950	28	C-12	C-8
	3	3/16	28	890/1020	25	C-15	C-10
	3	3/16	28	1050/1200	34	A-17	A-12
	3	3/16	21.5	1220/1390	19 x 2	C-10 x 2	C-4 x 2
	3	5/16	19.5	1440/1650	16 x 2	C-12 x 2	C-8 x 2
	4	5/16	19.5	1860/2120	16 x 2	C-15 x 2	C-10 x 2

*Also suitable for R-507, R-502, R-134A, R-401A, R-402A

Nozzles sized for 90-100°F liquid temp. at expansion valve. Refer to manual H-IM-64 if liquid temp. is not 90-100°F
Consult Bohn Application Engineering if evaporator TD is not 10°- 15°F, (room temp. - saturated suction temp.)

Caution: Refrigeration system will not perform properly without Correct Nozzle!

Replacement Parts

Table 18. Motor/Fan Blade/Guards

Part Number	Description	
25305701	Motor 208-230V/1PH PSC	1/2 HP 850 RPM
25305801	Motor 460V/1PH PSC	1/2 HP 850 RPM
7072102	Motor 208-230/460V/3PH	3/4 HP 1140 RPM
2538000	Motor 208-230/460V/3PH	1 HP 850 RPM
25301701	Motor 208-230/460V/3PH	1-1/2 HP 850 RPM
25301801	Motor 208-230/460V/3PH	1-1/2 HP 1140 RPM
25307901	Motor 575V/3PH	1/2 HP 1140 RPM
25301901	Motor 575V/3PH	1-1/2 HP 850 RPM
25302001	Motor 575V/3PH	1-1/2 HP 1140 RPM
25301001	Motor 208-230/460V/3PH	1 HP 1140 RPM TE
25301101	Motor 208-230/460V/3PH	1-1/2 HP 1140 RPM TE
5916F	Motor 208-230/460V/3PH	2 HP 1750 RPM
5926J	Motor 208-230/460V/3PH	3 HP 1750 RPM
25308901	Motor 208-230/460V/3PH	1 HP 1140 RPM TE (LT)
22901101	Fan Blade 24"	850 RPM
5133C	Fan Blade 24"	1140 RPM
22901201	Fan Blade 24"	1750 RPM Cast Aluminium
22900101	Fan Blade 30"	1140 RPM
22900301	Fan Blade 30"	850 RPM
22900401	Fan Blade 30"	850 RPM
22901401	Fan Blade 30"	1750 RPM Cast Aluminium
22901501	Fan Blade 30"	1140 RPM
23102203	Fan Guard 24"	Beige
23102303	Fan Guard 30"	Beige

Table 19. Coil Defrost Heaters

Part Number	Description	Unit Voltage	Model	Wire Lead Color Code
24711201	Heater 230V 1300W	208-230V & 460V	400, 450, 480, 550	Black
24711202	Heater 230V 1700W	208-230V & 460V	560, 640, 650, 740	Black
24711203	Heater 230V 2300W	208-230V & 460V	710, 810, 840, 890, 950, 1020, 1050, 1200, 1220, 1390	Black
24711801	Heater 288V 1300W	575V	400, 450, 480, 550	Black, Red
24711802	Heater 288V 1700W	575V	560, 640, 650, 740	Black, Red
24711803	Heater 288V 2300W	575V	710, 810, 840, 890, 950, 1020, 1050, 1200, 1220, 1390	Black, Red
23308101	Heater Clip	-	400-1390	-
24712301	Heater 230V 2100W	208-230V & 460V	1440, 1650	Black
24711403	Heater 230V 1550W	208-230V & 460V	1860, 2120	Black
24712302	Heater 288V 2100W	575V	1440, 1650	Black, Red
24712003	Heater 288V 1550W	575V	1860, 2120	Red
23307101	Heater Clip	-	1440-2120	-

Table 20. Cabinet Sheet Metal

Air Defrost Model	Electric, Hot Gas Defrost Model	Drain Pan*	Side Panel	Left Back Panel (Refrig. conn.)
520, 630	400, 450, 480, 550	40402003	40834901	40834701
750, 850	560, 640, 650, 740	40401803	40834901	40834701
930, 1100	710, 810, 840, 950	40401403	40834901	40834701
1170, 1400	890, 1020, 1050, 1200	40402103	40868201	40868101
1610	1220, 1390	40402103	40846501	40846401
1900, 2160	1440, 1650	40410403	40858401	40858601
2200, 2500	-	40410703	40858201	40858501
2440, 2780	1860, 2120	40410703	40858401	40858601

* Includes provision to mount drain pan heater

Table 21. Miscellaneous Components

Part Number	Description
4131-Y	Room Thermostat
4267-W	Defrost Termination and Fan Delay Thermostat Adjustable Type
5893-Q	Defrost Termination Thermostat Adjustable Type
5708-L	Heater Limit Thermostat

NOTES: Contact factory for hot gas defrost components not listed

Table 22. Drain Pan Defrost Heaters

Part Number	Description	Unit Voltage	Model	Wire Lead Color Code
24711301	Heater 230V 1050W	208-230V & 460V	400, 450, 480, 550	Black
24711302	Heater 230V 1350W	208-230V & 460V	560, 640, 650, 740	Black
24710305	Heater 230V 2000W	208-230V & 460V	710, 810, 840, 890, 950, 1020, 1050, 1200, 1220, 1390	Black
24710306	Heater 230V 2100W	208-230V & 460V	1440, 1650	Black
24711402	Heater 230V 1550W	208-230V & 460V	1860, 2120	Black
24711901	Heater 288V 1050W	575V	400, 450, 480, 550	Black, Red
24711902	Heater 288V 1350W	575V	560, 640, 650, 740	Black, Red
24711105	Heater 575V 2000W	575V	710, 810, 840, 890, 950, 1020, 1050, 1200, 1220, 1390	Black, Red
24711106	Heater 575V 2100W	575V	1440, 1650	Black, Red
24712002	Heater 288V 1550W	575V	1860, 2120	Black, Red



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